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1. AF141-107: Improved AFSCN FCT Simulator

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a low-cost hardware/software satellite testing system which can provide the functionality of the TSTR electronics and the RBC TSTR core electronics. This system will be used to demonstrate satellite system compatibility with the AFSCN. DESCRIPTION: The Transportable Space Test and Evaluation Resource (TSTR) system provides deployable support for factory and launch site s ...

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2. AF141-108: Forecasting of Solar Eruptions using Statistical Mechanics, Ensemble, and Bayesian Forecasting Methods

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Modify, develop and apply automated, machine-based learning systems and algorithms to assimilate, classify and identify solar eruptive activity and use the derived meta-data signals to predict and forecast solar eruptions. DESCRIPTION: Solar eruptions (solar flares and coronal mass ejections) cause disruptions to communication and navigation in DOD and civilian systems. This SB ...

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3. AF141-109: Adaptive antenna structures

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop antenna structure(s) or related items, capable of reducing radio frequency interference (RFI) susceptibility in RF-congested environments by controlling radiated and received emissions. DESCRIPTION: The Air Force Satellite Control Network (AFSCN) finds itself operating in regions of increasingly congested Radio Frequency Interference (RFI). The advent of private and comm ...

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4. AF141-110: Compact precision Atomic clock

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate a liter scale atomic clock with 1E-16 long term stability suitable for space applications. DESCRIPTION: Compact precision atomic clocks (CPAC) and atomic frequency standards (AFS) with 1E-16 term stability are capable of providing the timekeeping needs of future civilian and military systems. A space qualified clock can significantly increase GPS position ...

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5. AF141-111: GPS receiver cryptography key delivery leveraging NSA"s Key Management Infrastructure (KMI)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Research the impact that NSA"s new Key Management Infrastructure (KMI) will have on military GPS user equipment, key management operations and techniques that provide seamless transfer of cryptography key material directly to military GPS receivers. DESCRIPTION: Military GPS user equipment (UE) receivers are physically and manually loaded with National Security Agency (NSA) gene ...

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6. AF141-113: Selective Availability Anti-Spoofing Module (SAASM) Compliant GPS Receiver for GEO

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a rapidly converging, Selective Availability Anti-Spoofing Module (SAASM)-compliant GPS receiver for use at GEO. DESCRIPTION: The current SAASM-compliant receiver compatible with GEO does not allow for sidelobe tracking, leading to long outages. Though currently-available compliant receivers exist, they do not meet current size, weight and power (SWAP) constraints. Becau ...

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7. AF141-121: Satellite Threat Indications and Notification (TIN) in support of Space Situational Assessment

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop algorithms to determine and assess space system threats and anomalies. The ability to differentiate anomalous conditions and to correctly assess man made threats and/or abnormal environment impacts is critical for future space systems. DESCRIPTION: A critical need exists to be able to detect and discriminate between environmental conditions, man-made threats, and interna ...

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8. AF141-122: GPS PNT Flexible Satellite

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Investigate designs and possible options for a PNT Flexible satellite for GPS to enhance position, navigation, and timing (PNT) capabilities, at a low cost. DESCRIPTION: GPS augmentation systems enhance GPS constellation capabilities by providing additional PNT Flexible capabilities not inherent to GPS. It is desirable to use augmentation systems to maintain a more robust GPS se ...

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9. AF141-123: Advanced Algorithms for Non-Resolved Space Based Space Sensing

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop advanced algorithms that deliver significant improvements in characterization of deep space objects and Threat Indication and Notification (TIN) using unresolved photometric signature data. DESCRIPTION: Space-based space surveillance systems require advanced object characterization algorithms for custody of deep-space objects and TIN. The Space Based Space Surveillance S ...

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10. AF141-124: Space-based RF Emitter Detection and Localization Using Field Programmable Gate Arrays

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: In support of protected, tactical communications, autonomy S & T solutions for compact low-cost RF space sensors that will timely respond to contested RF environments, including radar interferences, personal 3G/4G telecommunications, etc. DESCRIPTION: Satellites are more vulnerable today to radio frequency (RF) jammers and high power in space-band transmitters due to availabilit ...

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